

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-4. (Canceled)

5. (Currently Amended) A liquid crystal display device comprising pixels, each of said pixels comprising:

a source signal line;

wherein each of said pixels has  $n \times m$  ( $n$  is a natural number equal to or greater than 2,  $m$  is a natural number) memory circuits; [[,]]

$n$  gate signal lines; [[,]]

$n$  TFTs having gate electrodes wherein the  $n$  TFTs are connected to the source signal line; [[,]] and

a D/A converter for converting  $n$  bit digital signals stored in said  $n \times m$  memory circuits into analog signals,

wherein said memory circuits store each of said pixels stores digital signals corresponding to  $m$  frames, in the  $n \times m$  memory circuits, and

wherein each of said gate electrodes is connected to a corresponding one of said  $n$  gate signal lines.

6-7. (Canceled)

8. (Currently Amended) A liquid crystal display device comprising pixels, each of said pixels comprising:

a liquid crystal element; [[and]]

a source signal line; [[,]]  
n (n is a natural number equal to or greater than 2) gate signal lines; [[,]]  
n TFTs having gate electrodes; [[,]]  
n x m (m is a natural number) memory circuits; [[,]] and  
a D/A converter,  
wherein each of said gate electrodes is connected to a corresponding one of said n gate  
signal lines, and  
wherein each of said n TFTs has a source region and a drain region, and one of which is  
connected to said source signal line and the other of which is connected to an input terminal of  
one of said n x m memory circuits,  
wherein an output terminal of each of said n x m memory circuits is connected to an input  
terminal of said D/A converter, and  
wherein an output terminal of said D/A converter is connected to said liquid crystal  
element.

9. (Canceled)

10. (Currently Amended) A liquid crystal display device according to claim 8, wherein:  
wherein said liquid crystal display device has a source signal line driving circuit  
including shift registers, first latch circuits, second latch circuits, and switches,  
wherein said first latch circuits hold n bit digital signals upon receiving sampling pulses  
from said shift registers until said n bit digital signals are transferred to said second latch circuits,  
and  
wherein said switches select said n bit digital signals that have been transferred to said  
second latch circuits one bit at a time to input said selected signals into said source signal line.

11. (Original) A liquid crystal display device according to claim 8,

wherein said liquid crystal display device has a source signal line driving circuit including shift registers, first latch circuits, and second latch circuits, and

wherein said first latch circuits hold 1 bit digital signals upon receiving sampling pulses from said shift registers until said 1 bit digital signals are transferred to said second latch circuits.

12-32. (Canceled)

33. (Currently Amended) A liquid crystal display device according to claim 5, wherein said memory circuits and said D/A converter are arranged so as to overlap [[a]] the source signal line.

34-46. (Canceled)

47. (Previously Presented) A liquid crystal display device according to claim 5, wherein said memory circuits are formed over one selected from the group consisting of a glass substrate, a plastic substrate, a stainless steel substrate, and a single crystal wafer.

48. (Previously Presented) A liquid crystal display device according to claim 8, wherein said memory circuits are formed over one selected from the group consisting of a glass substrate, a plastic substrate, a stainless steel substrate, and a single crystal wafer.

49-52. (Canceled)

53. (Previously Presented) A liquid crystal display device according to claim 5, wherein said liquid crystal display device is incorporated in one selected from the group consisting of a mobile telephone, a video camera, a mobile computer, a head mount display, a television set, a portable electronic book, a personal computer, and a digital camera.

54. (Previously Presented) A liquid crystal display device according to claim 8, wherein said liquid crystal display device is incorporated in one selected from the group consisting of a mobile telephone, a video camera, a mobile computer, a head mount display, a television set, a portable electronic book, a personal computer, and a digital camera.

55-69. (Canceled)

70. (Currently Amended) A liquid crystal display device comprising pixels, each of said pixels comprising:

a source signal line;

wherein each of said pixels has a liquid crystal element; [ , ]

n x m (n is a natural number equal to or greater than 2, m is a natural number) memory circuits; [ , ]

n gate signal lines; [ , ]

n TFTs having gate electrodes wherein the n TFTs are connected to the source signal line; [ , ] and

a D/A converter for converting n bit digital signals stored in said n x m memory circuits into analog signals,

wherein memory circuits store each of said pixels stores digital signals corresponding to m frames, and

wherein each of said gate electrodes is connected to a corresponding one of said n gate signal lines.

71. (Currently Amended) A liquid crystal display device according to claim 70, wherein said memory circuits and said D/A converter are arranged so as to overlap [[a]] the source signal line.

72-73. (Canceled)

74. (Previously Presented) A liquid crystal display device according to claim 70, wherein said memory circuits are formed over one selected from the group consisting of a glass substrate, a plastic substrate, a stainless steel substrate, and a single crystal wafer.

75. (Previously Presented) A liquid crystal display device according to claim 70, wherein said liquid crystal display device is incorporated in one selected from the group consisting of a mobile telephone, a video camera, a mobile computer, a head mount display, a television set, a portable electronic book, a personal computer, and a digital camera.

76-81. (Canceled)